

# Work Order ID 62824

Friday, October 08, 2010 12:47:35 PM



Page 1

Item ID: D3319-3

Accept



Setup Start



Revision ID:

Stop



Item Name: Wearplate

Start Date: 10/8/2010 Start Qty: 6.00

Cust Item ID:

Required Date: 10/15/2010 Req'd Qty: 6.00

Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3319	Rev B

100

0.00



FLOW WATER JET

Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg D3319 ☐ Dwg Rev: B ☐ Prog Rev: B ☐ 2-  
Deburr if necessary

1010 - OSC

B10-11-3

(9)

110

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

Quality Control

B10-11-3

120

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

Quality Control

8/10/10/04

(XS)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 62824**

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Page 2

Item ID: D3319-3

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Item Name: Wearplate

Start Date: 10/8/2010 Start Qty: 6.00



Cust Item ID:

Required Date: 10/15/2010 Req'd Qty: 6.00



Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Small Fab	0.00							
Small Fab	Memo	0.00							
Small Fab	Deburr if necessary								
	<i>u/a S</i>								
140 	NC BRAKE	0.00							
Brake NC	Memo	0.00							
Brake NC	Form using DT8326 & DT8261 as per Dwg D3319Rev:								
	<i>B SB 10/11/04</i>								
150 	QC6- Inspect dimensions to drawing	0.00							
QC	Memo	0.00							
Quality Control									
	<i>S 10/11/04</i>								

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 62824**

Friday, October 08, 2010 12:47:35 PM

Page 3

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Revision ID:

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Item Name: Wearplate

Start Date: 10/8/2010 Start Qty: 6.00

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Customer:

Reference:

Run Start

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

160

0.00



Large Fab

Large Fab

Memo

0.00

Large Fab

Weld hard surface using D3319-3T2 per QSI 004 and Dwg D3319 Rev:

Qty	Part Number	Description	Batch	A/R
N/A	7560 Hardcoat Rod	M 112507		

EL

10-11-20

X9

170

0.00



QC10- Inspect visual per QSI004- ground welds

QC

Memo

0.00

Quality Control

180

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

X9

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

# Work Order ID 62824

Friday, October 08, 2010 12:47:35 PM



Item ID: D3319-3

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Setup Start



Revision ID:

Stop



Item Name: Wearplate

Start Date: 10/8/2010 Start Qty: 6.00



Cust Item ID:

Required Date: 10/15/2010 Req'd Qty: 6.00



Customer:

Reference:

Run Start



Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

190



Powdercoat

Powder Coating

Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00

0.00

→ 10/11/24

49

0

Memo

START TIME:

8:00AM

OVEN TEMPERATURE:

8:30AM FINISH TIME:

320°F

200



QC

Quality Control

QC3- Inspect Part Finish

0.00

0.00

Memo

10/11/24 S/P (92)

210



Packaging

Packaging

Packaging

0.00

0.00

Memo

Identify on inside surface using a permanent fine point marker with the following: ☐TCCA-PDA, Dart Aerospace Ltd. ☐P/N: D3319-3, B/N:

BXXXXX ☐For Product Eligibility see PDA05-18 ☐and

Stock ☐Location: 977

10/11/24 S/P (93)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



**Work Order ID 62824**

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Page 5

Item ID: D3319-3

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Stop

Item Name: Wearplate

Start Date: 10/8/2010 Start Qty: 6.00

Cust Item ID:

Required Date: 10/15/2010 Req'd Qty: 6.00

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

220

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/11/25 *[Signature]*  
MF  
10-11-24

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Friday, October 08, 2010 12:47:41 PM

Page 1

Work Order ID: 62824

Parent Item: D3319-3

Parent Item Name: Wearplate

Start Date: 10/8/2010

Required Date: 10/15/2010

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP: A 05.05.12 New issue KJ/JLM  
IPP Rev:B Now on Waterjet 06-10-03 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

M1010S18GA

Purchased

No

100

sf

5.4585

3.2524

20.54147

30.



1860-11-3

1010/1025 SHEET .048

Location

Loc Qty

Loc Code

MAT19

5.45853

114225

5.45853

116031

116031

9

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

<b>DART AEROSPACE LTD</b>		<b>Work Order:</b>	6284
<b>Description:</b> Wearplate		<b>Part Number:</b>	D3319-3
<b>Inspection Dwg:</b> D3319 <b>Rev:</b> B		<b>Page 1 of 1</b>	

### FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article      ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
75.52	+/-0.030	75.52	*		T 1802	
74.420	+/-0.010	74.420	x		T	
62.770	+/-0.010	62.770	x		T	
52.890	+/-0.010	52.890	x		T	
30.790	+/-0.010	30.790	*		T	
8.690	+/-0.010	8.690	x		T	
0.60	+/-0.030	.601	x		V 1802	
2.690	+/-0.010	2.698	x		V	
2.940	+/-0.010	2.940	x		V	
3.527	+/-0.010	3.526	x		V	
4.518	+/-0.010	4.515	x		V	
Ø0.190	+0.005/-0.001	.194	x		V	
2.940	+/-0.010	2.949	x		V	
2.940	+/-0.010	2.944	x		V	
2.690	+/-0.010	2.696	x		V	
5.063	+/-0.010	5.060	x		V	
6.163	+/-0.010	6.161	x		V	
Ø0.316 x 0.607	+0.006/-0.001 x +/-0.010	319 x 610	x		V	
0.048	+/-0.010	.050	x		V	

<b>Measured by:</b> RB	<b>Audited by:</b> S	<b>Prototype Approval:</b>	N/A
<b>Date:</b> 10-11-03	<b>Date:</b> 10/6/04	<b>Date:</b>	N/A

Rev	Date	Change	Revised by	Approved
A	07.07.18	New Issue	KJ/JLM	BE

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

SHOWN COPY

REF. 1

ENGIN 1

UNCONTROLLED COPY

SUBJECT TO A.C. 1

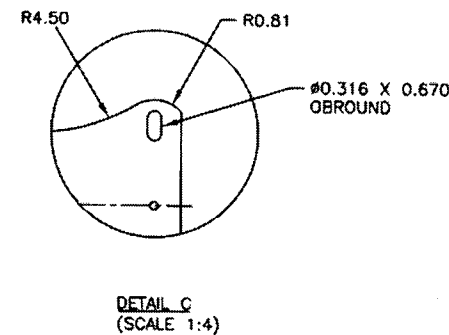
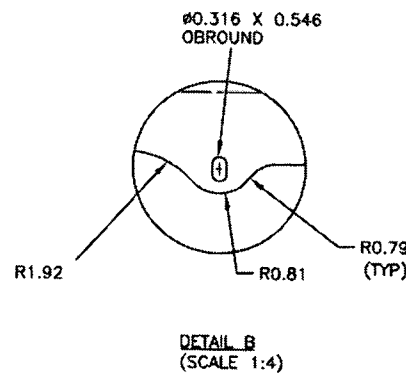
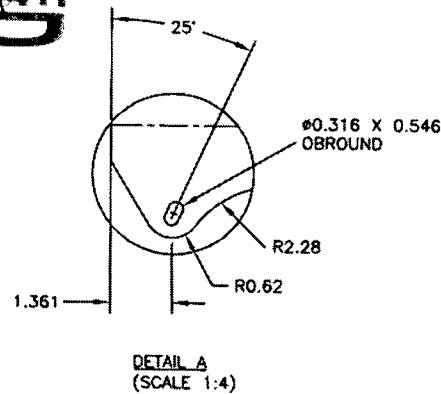
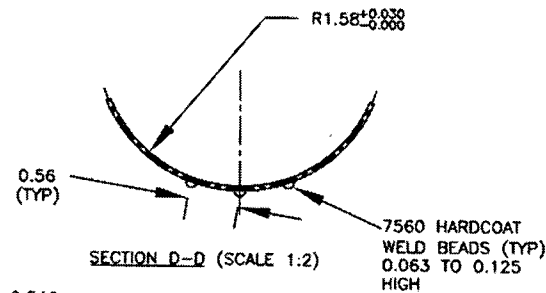
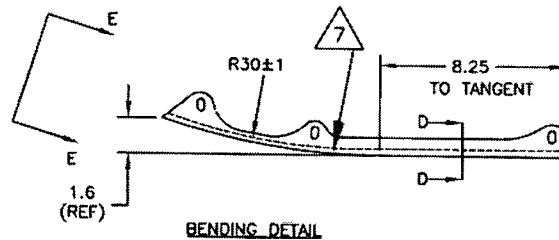
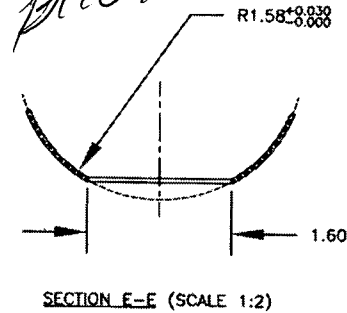
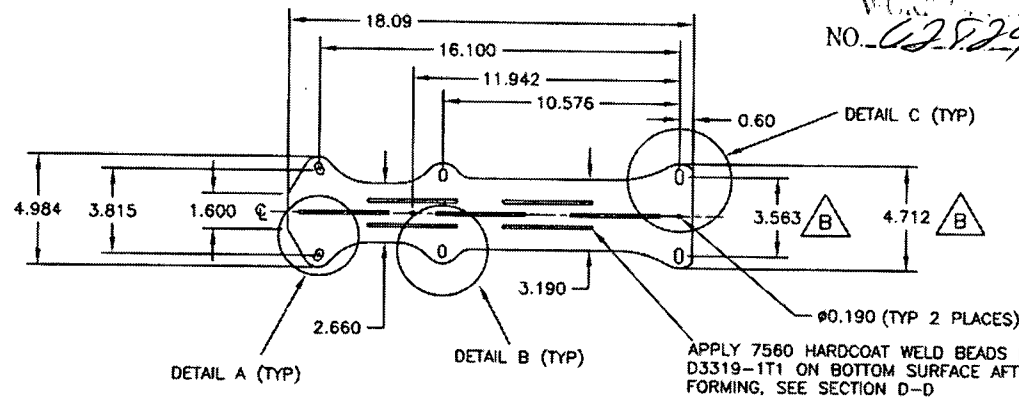
WITH

WORK

NO. 02829

Photo-5

FLAT PATTERN



D3319-1 WEARPLATE

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)
- 2) FINISH: POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) PART IS SYMMETRICAL ABOUT CENTERLINE
- 5) ALL DIMENSIONS IN INCHES
- 6) WELD PER DART QSI 004
- 7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER:  
"TCCA-PDA, DART AEROSPACE LTD., P/N D3319-1 B/N BXXXXX, FOR PRODUCT ELIGIBILITY SEE PDA05-18"

**DART**

DESIGN	DRAWN BY	DART AEROSPACE LTD
P1	P1	HAWKESBURY, ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.
		D3319
DATE	TITLE	SCALE
05.06.06	WEARPLATE	1:8
A	NEW ISSUE	REV. B
05.06.06		
B	WIDEN HOLES, REDUCE WIDTH -3/-5/-7	SHEET 1 OF 5

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RELEASED  
05.09.30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

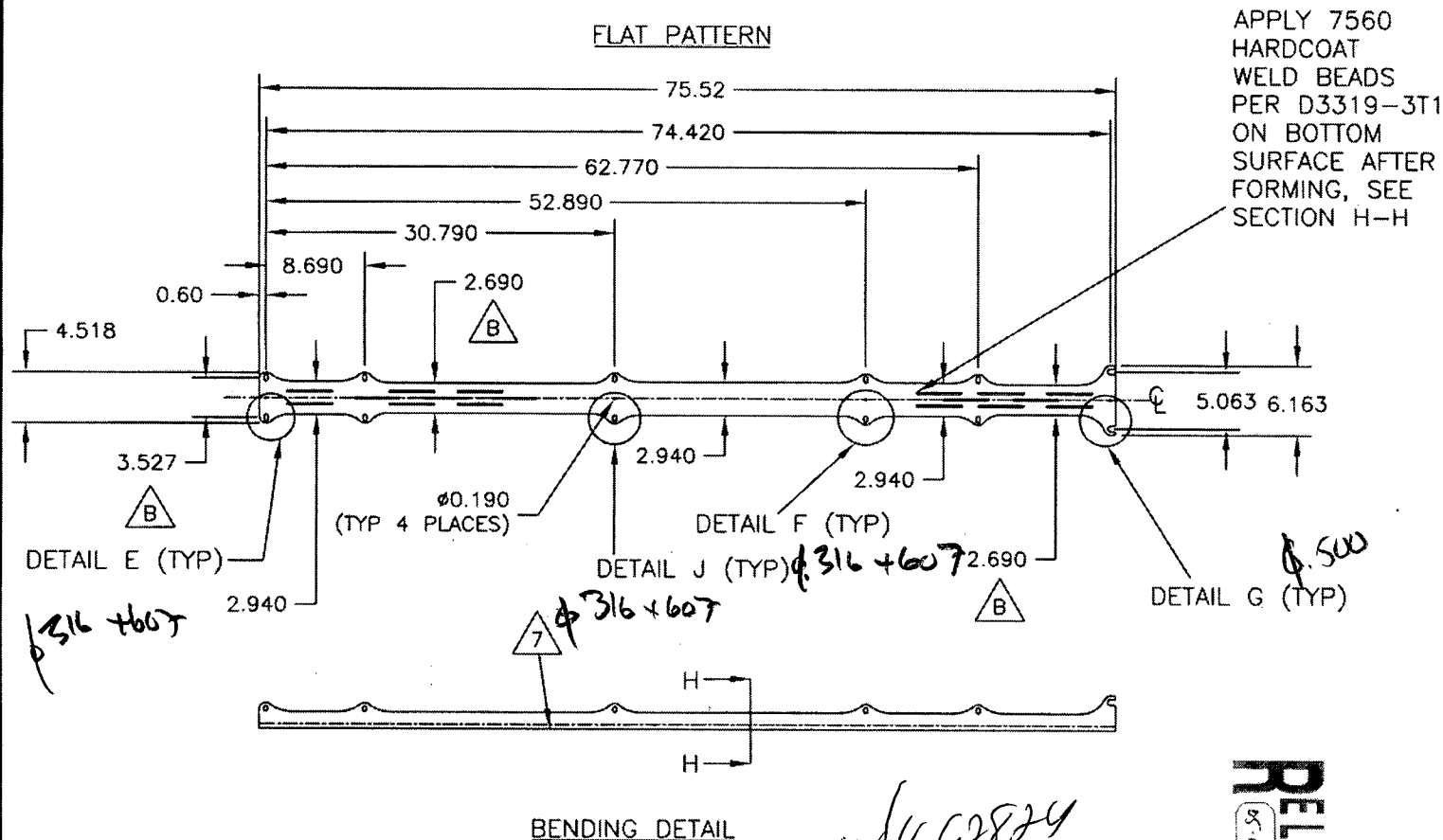
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries





**DART**

DESIGN	04	DRAWN BY	04	<b>DART AEROSPACE LTD</b>
CHECKED		APPROVED		HAWKESBURY, ONTARIO, CANADA
DATE	05.06.06	DRAWING NO.	D3319	REV. B
		TITLE	WEARPLATE	SHEET 2 OF 5
				SCALE 1:15

**D3319-3 WEARPLATE**

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)
- 2) FINISH: POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) PART IS SYMMETRICAL ABOUT CENTERLINE
- 5) ALL DIMENSIONS IN INCHES
- 6) WELD PER DART QSI 004
- 7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER:  
"TCCA-PDA, DART AEROSPACE LTD., P/N D3319-3 B/N BXXXXX,  
FOR PRODUCT ELIGIBILITY SEE PDA05-18"

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector



Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

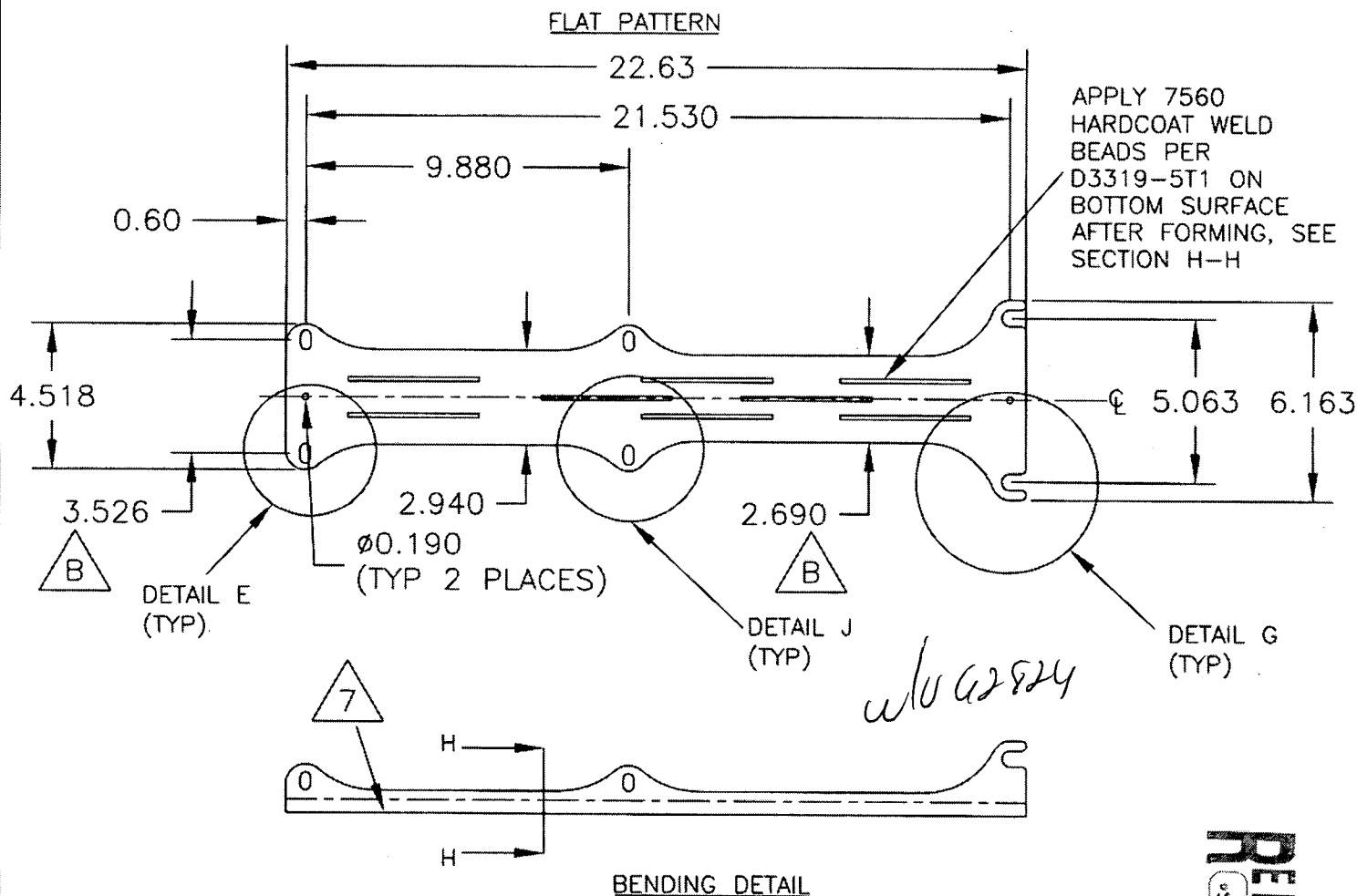
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DESIGN	D41	DRAWN BY	D41	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED		APPROVED		DRAWING NO.	D3319
DATE	05.06.06			TITLE	WEARPLATE
				REV. B	SHEET 3 OF 5
				SCALE	1:5

05-07-30



D3319-5 WEARPLATE

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21,  
38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)
- 2) FINISH: POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) PART IS SYMMETRICAL ABOUT CENTERLINE
- 5) ALL DIMENSIONS IN INCHES
- 6) WELD PER DART QSI 004
- 7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER:  
"TCCA-PDA, DART AEROSPACE LTD., P/N D3319-5 B/N BXXXXX,  
FOR PRODUCT ELIGIBILITY SEE PDA05-18"

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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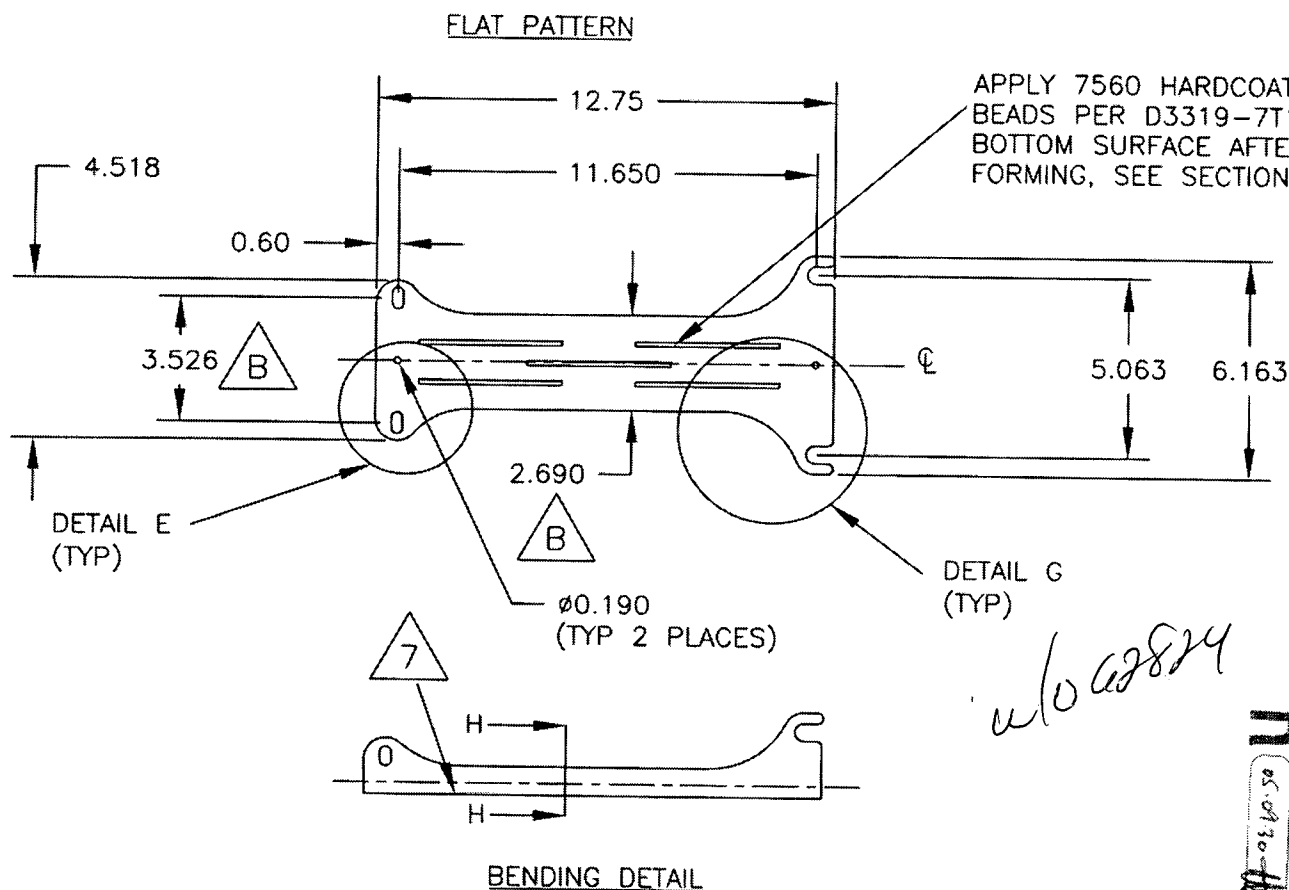
**NOTE:** Date & initial all entries

**DART**

DESIGN	PH	DRAWN BY	PH	<b>DART AEROSPACE LTD</b>
CHECKED	PH	APPROVED	PH	HAWKESBURY, ONTARIO, CANADA
DATE	05.06.06	TITLE	D3319	REV. B
			WEARPLATE	SHEET 4 OF 5
				SCALE: 1:5

**RELEASED**  
05.07.30-41

APPLY 7560 HARDCOAT WELD BEADS PER D3319-7T1 ON BOTTOM SURFACE AFTER FORMING, SEE SECTION H-H



FLAT PATTERN

BENDING DETAIL

**D3319-7 WEARPLATE**

- 1) MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W SERIES STEEL 18 GAUGE (0.048 THICK)
- 2) FINISH: POWDER COAT GREY SANDTEX (REF.4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) PART IS SYMMETRICAL ABOUT CENTERLINE
- 5) ALL DIMENSIONS IN INCHES
- 6) WELD PER DART QSI 004
- 7) IDENTIFY ON INSIDE SURFACE AS INDICATED USING FINE POINT PERMANENT INK MARKER: "TCCA-PDA, DART AEROSPACE LTD., P/N D3319-7 B/N BXXXXX, FOR PRODUCT ELIGIBILITY SEE PDA05-18"

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

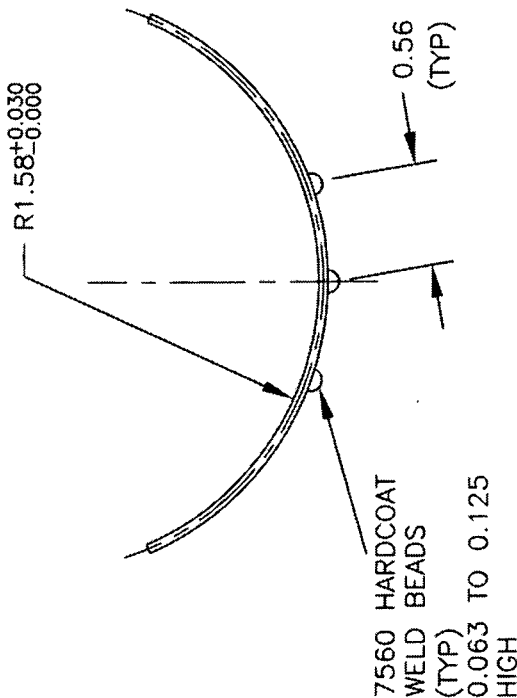
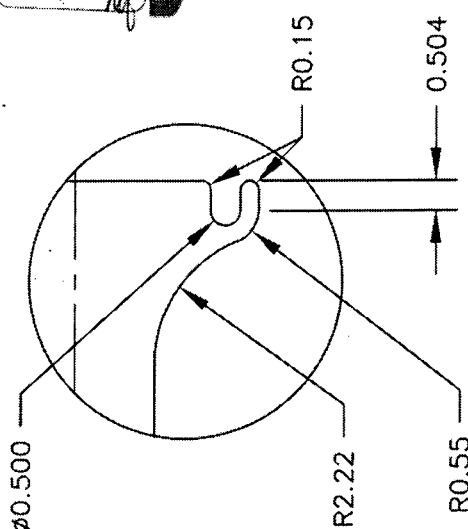
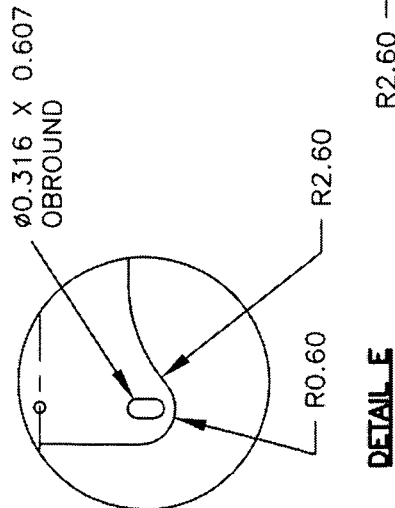
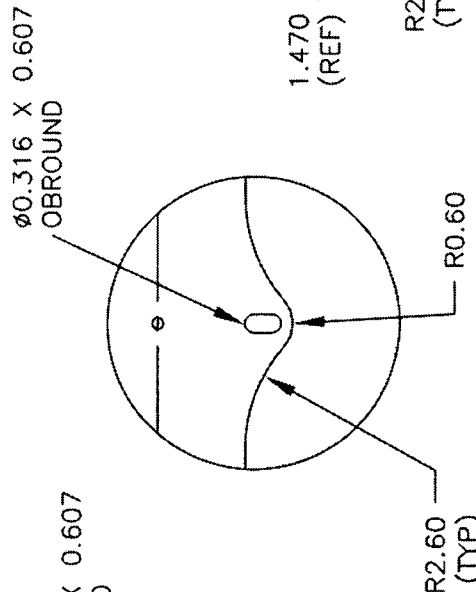
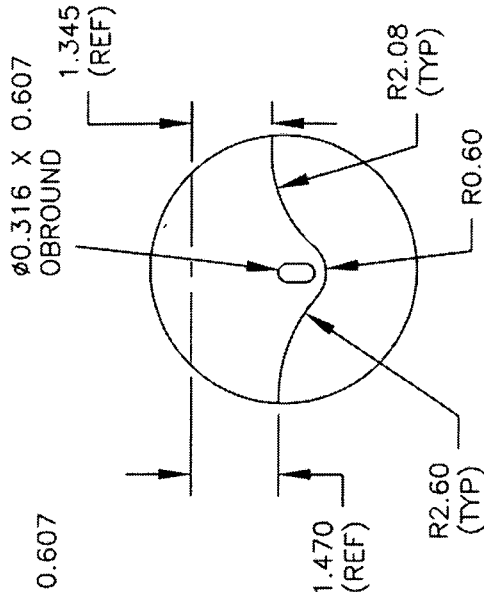
**NOTE:** Date & initial all entries



DESIGN <i>PH</i>	DRAWN BY <i>PH</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3319	REV. 8 SHEET 5 OF 5
DATE 05.06.06		TITLE WEARPLATE	SCALE 1:3

RELEASED  
05-09-30

*WLB 62824*



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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



## Chantal Lavoie

---

**From:** David Shepherd [dshepherd@dartaero.com]  
**Sent:** October 12, 2010 10:57 PM  
**To:** 'Chris Provencal'  
**Cc:** 'Mike Petsche'; 'Chantal Lavoie'  
**Subject:** RE: M1010-S material

Chris,

It is acceptable to use this material for wearplates.  
The minimum allowables are for ground handling lugs.

Thanks,  
David

---

**From:** Chris Provencal [mailto:cprovencal@dartaero.com]  
**Sent:** Tuesday, October 12, 2010 11:45 AM  
**To:** 'David Shepherd'  
**Cc:** 'Mike Petsche'; 'Chantal Lavoie'  
**Subject:** M1010-S material

David,

RE: incorrect material (commercial grade) in stock for 1010-1025 steel

Chantal is trying to get the proper material in, but is still trying to source the stuff. In the meantime they need to make a bunch of OEM wearplates. Can we use the existing (commercial) material?

The material in question is made to ASTM 1008, AISI 1010 CS (commercial steel) grade with a "typical" tensile strength 20-40 ksi. Given the nature of the wearplates, there would be no danger in using the material; however I don't have authority to make such a deviation.

-Chris

No virus found in this incoming message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 8.5.448 / Virus Database: 271.1.1/3187 - Release Date: 10/12/10 06:34:00

10/13/10

## Marc Bellavance

---

**From:** David Shepherd [dshepherd@dartaero.com]  
**Sent:** November 3, 2010 12:45 PM  
**To:** 'Marc Bellavance'  
**Cc:** 'Linda Lacelle'  
**Subject:** RE: Material Issue

Yes ... this is acceptable for now.

David

M116631

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**From:** Marc Bellavance [mailto:mbellavance@dartaero.com]  
**Sent:** Wednesday, November 03, 2010 10:05 AM  
**To:** 'David Shepherd'  
**Cc:** 'Linda Lacelle'  
**Subject:** Material Issue  
**Importance:** High

Here is another one...

Drawing D3319 specifies 0.048 (18 GA) AISI 1010-1025 for wearplates. We got AISI 1008 of commercial quality. Is it acceptable to accept and red tag the material "FOR WEARPLATES ONLY"? This has been done before for different material thicknesses.

Thanks.

**Marc Bellavance**  
**Technical/Shop Support**  
***DART aerospace Ltd.***

Tel: 613-632-5200 Ext. 240

Cel: 613-676-0992

Fax: 613-632-9311

E-mail: [mbellavance@dartaero.com](mailto:mbellavance@dartaero.com)

Web: [www.dartaero.com](http://www.dartaero.com)



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Version: 8.5.449 / Virus Database: 271.1.1/3235 - Release Date: 11/03/10 08:36:00